

Safety Data Sheet according to Regulation (EU) No. 1907/2006

FROWEIN GmbH & Co. KG

Revision date : 23.01.2009

Revision no. : 1,02

DETMOL-LACK

00434-0049

1. Identification of the substance/preparation and of the company/undertaking**Identification of the substance or preparation**

DETMOL-LACK

Use of the substance/preparation

Pesticide

Company/undertaking identification

FROWEIN GmbH & Co. KG

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Contact person

Inquiry office

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2. Hazards identification**Classification**

Indications of danger : Toxic, Dangerous for the environment

R-phrases :

Flammable.

Toxic by inhalation.

Harmful in contact with skin and if swallowed.

Irritating to skin.

Risk of serious damage to eyes.

May cause sensitization by skin contact.

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

3. Composition/information on ingredients**Chemical characterization**

(preparation)

Preparation in organic solvents

Hazardous components

EC-No.	CAS-No.	Chemical name	Quantity	Classification
204-658-1	123-86-4	n-Butyl acetate	< 50 %	R10-66-67
215-535-7	1330-20-7	Xylene (mixed isomers)	< 25 %	Xn, Xi R10-20/21-38
200-751-6	71-36-3	Butan-1-ol	< 15 %	Xn, Xi R10-22-37/38-41-67
203-631-1	108-94-1	Cyclohexanone	< 15 %	Xn R10-20
202-849-4	100-41-4	Ethyl benzene	< 5 %	F, Xn R11-20
245-216-8	22781-23-3	bendiocarb (ISO)	2,5 %	T, Xn, N R23/25-21-50-53
200-547-7	62-73-7	Dichlorvos	2,5 %	T+, T, N R26-24/25-43-50
203-550-1	108-10-1	4-Methylpentan-2-one	< 5 %	F, Xn, Xi R11-20-36/37-66

Full text of each relevant R phrase can be found in heading 16.

4. First aid measures

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General information

Remove contaminated soaked clothing immediately.

If you feel unwell, seek medical advice.

After inhalation

Move to fresh air in case of accidental inhalation of vapours.

Consult a physician.

After contact with skin

Wash off immediately with plenty of water and soap for at least 15 minutes.

Consult a physician.

After contact with eyes

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

Consult (eye) doctor immediately.

After ingestion

Do not induce vomiting.

Summon a doctor immediately.

Induce vomiting only upon the advice of a physician.

Attention. Beware, danger of aspiration.

5. Fire-fighting measures

Suitable extinguishing media

Foam, carbon dioxide (CO₂), dry chemical, water-spray.

Extinguishing media which must not be used for safety reasons

Full water jet

Special exposure hazards arising from substance or preparation itself, combustion products, resulting gases

Fire may produce:

Carbon monoxide, carbon dioxide, sulphur oxides, nitrogen oxides (NO_x), hydrochloric acid gas and phosphorus pentaoxide.

Special protective equipment for fire-fighters

Wear self-contained breathing apparatus and protective suit.

Additional information

Cool containers at risk with water spray jet.

Vapours are heavier than air and spread along ground.

The vapour/air mixture is explosive, even in empty, uncleaned receptacles.

Do not release chemically contaminated water into drains, soil or surface waters. Sufficient measures must be taken to retain water used for extinguishing.

Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

6. Accidental release measures

Personal precautions

In case of vapour formation use respirator.

Use only explosion-proof equipment.

Ensure adequate ventilation.

Remove persons to safety.

Use personal protective clothing.

Environmental precautions

Do not discharge into the drains/surface waters/groundwater.

Do not discharge into the subsoil/soil.

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Methods for cleaning up/taking up

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder).

Shovel into suitable container for disposal.

Additional information

Clean contaminated surface thoroughly.

7. Handling and storage**Handling****Advice on safe handling**

Keep container tightly closed.

Vapours are heavier than air and spread along ground.

Avoid contact with the skin and the eyes.

Use only in thoroughly ventilated areas.

Advice on protection against fire and explosion

Do not smoke - volatile.

Keep away from heat and sources of ignition.

Take precautionary measures against static discharges.

Use only explosion-proof equipment.

Storage**Requirements for storage rooms and vessels**

Keep container tightly closed in a dry, cool and well-ventilated place.

Pay attention to anti-explosion rules.

Advice on storage compatibility

Incompatible with:

Oxidizing agents, Acids and bases.

Further information on storage conditions

Keep away from food, drink and animal feeding stuffs.

Storageclass (VCI)

3 A

8. Exposure controls/personal protection**Exposure limit values****Exposure limits (EH40)**

CAS-No.	Chemical name	ml/m ³	mg/m ³	F/ml	Category	Origin
108-10-1	4-Methylpentan-2-one	50	208		TWA (8 h)	WEL
	4-Methylpentan-2-one	100	416		STEL (15 min)	WEL
71-36-3	Butan-1-ol	-	-		TWA (8 h)	WEL
	Butan-1-ol	50	154		STEL (15 min)	WEL
123-86-4	Butyl acetate	150	724		TWA (8 h)	WEL
	Butyl acetate	200	966		STEL (15 min)	WEL
108-94-1	Cyclohexanone	10	41		TWA (8 h)	WEL
	Cyclohexanone	20	82		STEL (15 min)	WEL
100-41-4	Ethylbenzene	100	441		TWA (8 h)	WEL
	Ethylbenzene	125	552		STEL (15 min)	WEL
1330-20-7	Xylene, o-, m-, p- or mixed isomers	50	220		TWA (8 h)	WEL
	Xylene, o-, m-, p- or mixed isomers	100	441		STEL (15 min)	WEL

Exposure controls

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Occupational exposure controls

Ensure adequate ventilation, especially in confined areas.

Protective and hygiene measures

Wash hands before breaks and immediately after handling the product.

When using, do not eat, drink or smoke.

Take off immediately all contaminated clothing.

Avoid contact with skin, eyes and clothing.

Do not breath vapours or spray mist.

Respiratory protection

In case of insufficient ventilation wear suitable respiratory equipment (gas filter type A).

Hand protection

Use multipurpose protective gloves (plant protection) when spreading/handling the product.

Eye protection

Tightly fitting goggles

Eye wash bottle with pure water.

Skin protection

Chemical resistant apron

Long sleeved clothing.

9. Physical and chemical properties**General information**

Physical state	Liquid
Colour	Yellowish
Odour	Characteristic

Important health, safety and environmental information

Test method

Changes in the physical state

Flash point > 23 °C

Flammability

Lower explosion limits 1,3 vol. %

Upper explosion limits 13,7 vol. %

Ignition temperature > 280 °C

Vapour pressure : approx. 8 hPa
at (20 °C)Density (at 14 °C) : 0,97 g/cm³Water solubility : Immiscible
at (20 °C)**Solvent content**

> 95 %

10. Stability and reactivity**Conditions to avoid**

To avoid thermal decomposition, do not overheat.

Vapour/air mixtures are explosive at intensive warming.

Heating can release vapours which can be ignited.

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Materials to avoid

Oxidizing agents., Acids and bases

Hazardous decomposition products

Carbon monoxide, carbon dioxide, sulphur oxides, nitrogen oxides (NOX), hydrochloric acid gas and phosphorus pentaoxide.

Additional information

No decomposition if stored and applied as directed.

11. Toxicological information

Empirical data on effects on humans

Toxic by inhalation.

Harmful in contact with skin and if swallowed.

Irritating to skin.

Risk of strong eye injuries.

May cause sensitization by skin contact.

High concentration of vapours may cause irritation to eyes and respiratory system and produce narcotic effects.

Repeated or prolonged exposure may cause skin irritation and dermatitis, due to degreasing properties of the product.

Repeated or prolonged skin contact may cause allergic reactions with susceptible persons.

12. Ecological information

Further information

Do not flush into surface water or sanitary sewer system.

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Highly water contaminating.

13. Disposal considerations

Advice on disposal

Where possible recycling is preferred to disposal.

Can be incinerated, when in compliance with local regulations.

Waste disposal number of waste from residues/unused products

200119 MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS; separately collected fractions (except 15 01); pesticides
Classified as hazardous waste.

Waste disposal number of used product

150110 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); packaging containing residues of or contaminated by dangerous substances
Classified as hazardous waste.

Contaminated packaging

Contaminated packagings are to be treated like the product itself.

Re-using the polluted packaging materials is not allowed.

14. Transport information

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Land transport (ADR/RID)

ADR/RID class	6.1
Classification code :	TF2
Hazard-no.	63
UN number	2903
Hazard label	6.1+3
ADR/RID packing group	III
Limited quantity :	LQ7

Description of the goods

Pesticide, liquid, toxic, flammable, n.o.s. (Dichlorvos, bendiocarb (ISO), Xylene (mixed isomers))

Other applicable information (land transport)

LQ 7: combination packaging: 5 l / 30 kg (total gross mass); trays: 5 l / 20 kg (total gross mass).

Tunnel restriction code: D/E

Transport category: 2

Additional label with symbol "fish and tree" according to subsection 5.2.1.8.3. ADR for single packagings and inner packagings with > 5 kg or 5 L, transition period ends 31.12.2010.

Inland waterways transport**Marine transport**

IMDG code	6.1
UN number	2903
Marine pollutant	P
EmS	F-E, S-D
Limited quantity :	5 L / 30 kg
IMDG packing group	III
Hazard label	6.1+3

Description of the goods

PESTICIDE, LIQUID, TOXIC, FLAMMABLE, N.O.S., (Bendiocarb, Dichlorvos, xylene)

Other applicable information (marine transport)

Limited quantities (section 3.4): combination packaging: 5 l / 30 kg (total gross mass); trays: 5 l / 20 kg (total gross mass).

Additional label with symbol "fish and tree" according to subsection 5.2.1. IMDG Code for single packagings and inner packagings with > 5 kg or 5 L, transition period ends 31.12.2009.

Air transport

ICAO/IATA-DGR	6.1
UN/ID number	2903
Hazard label	6.1+3
IATA-packing instructions - Passenger	611
IATA-max. quantity - Passenger	60 L
IATA-packing instructions - Cargo	618
IATA-max. quantity - Cargo	220 L
ICAO packing group	III
Limited quantity Passenger	Y611 / 2 L

Description of the goods

PESTICIDE, LIQUID, TOXIC, FLAMMABLE, N.O.S., (Bendiocarb, Dichlorvos, xylene)

Other applicable information (air transport)

Additional label with symbol "fish and tree" according to subsection 7.1.6.3. IATA/DGR for single packagings and inner packagings with > 5 kg or 5 L.

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15. Regulatory information

Labelling

According to EC-regulations the product is to be labelled as follows:

Indication of danger

T - Toxic; N - Dangerous for the environment

Hazardous component(s) to be indicated on label

bendiocarb (ISO)

Dichlorvos

Xylene (mixed isomers)

R phrases

- 10 Flammable.
- 23 Toxic by inhalation.
- 21/22 Harmful in contact with skin and if swallowed.
- 38 Irritating to skin.
- 41 Risk of serious damage to eyes.
- 43 May cause sensitization by skin contact.
- 50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S phrases

- 02 Keep out of the reach of children.
- 13 Keep away from food, drink and animal feedingstuffs.
- 16 Keep away from sources of ignition - No smoking.
- 23 Do not breathe vapour.
- 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- 38 In case of insufficient ventilation, wear suitable respiratory equipment.
- 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
- 60 This material and its container must be disposed of as hazardous waste.
- 61 Avoid release to the environment. Refer to special instructions / Safety data sheets.
- 20/21 When using do not eat, drink or smoke.
- 36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

National regulatory information

Employment restrictions	Observe employment restrictions for young people. Observe employment restrictions for child bearing mothers and nursing.
Water contaminating class (D)	3 - highly water contaminating
1999/13/EC (VOC)	95 %

16. Other information

Full text of R-phrases referred to under sections 2 and 3

- 10 Flammable.
- 11 Highly flammable.
- 20 Harmful by inhalation.
- 20/21 Harmful by inhalation and in contact with skin.
- 21 Harmful in contact with skin.
- 21/22 Harmful in contact with skin and if swallowed.
- 22 Harmful if swallowed.
- 23 Toxic by inhalation.
- 23/25 Toxic by inhalation and if swallowed.
- 24/25 Toxic in contact with skin and if swallowed.

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26	Very toxic by inhalation.
36/37	Irritating to eyes and respiratory system.
37/38	Irritating to respiratory system and skin.
38	Irritating to skin.
41	Risk of serious damage to eyes.
43	May cause sensitization by skin contact.
50	Very toxic to aquatic organisms.
50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
53	May cause long-term adverse effects in the aquatic environment.
66	Repeated exposure may cause skin dryness or cracking.
67	Vapours may cause drowsiness and dizziness.

Further Information

Data of items 4 to 8, as well as 10 to 12, do partly not refer to the use and the regular employing of the product (in this sense consult information on use and on product), but to liberation of major amounts in case of accidents and irregularities.

The information describes exclusively the safety requirements for the product (s) and is based on the present level of our knowledge.

The delivery specifications are contained in the corresponding product sheet.

This data does not constitute a guarantee for the characteristics of the product(s) as defined by the legal warranty regulations.

"(n.a. = not applicable; n.d. = not determined)"

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)